**DOCKET NO.:** UBCV-0004 **Application No.:** 09/189,415

Office Action Dated: November 8, 2005

PATENT REPLY FILED UNDER EXPEDITED PROCEDURE PURSUANT TO 37 CFR § 1.116

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1-6. (Cancelled)
- 7. **(Previously presented)** An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO: 11.
- 8-51. (Cancelled)
- 52. (Currently amended) A pharmaceutical composition comprising a polypeptide that comprises at least one of the amino acid sequences set forth in SEQ ID NO: 10 and SEQ ID NO: 11 the polypeptide of claim 7 or 63 in a pharmaceutically acceptable carrier.
- 53-61. (Cancelled)
- 62. **(Previously presented)** A Tir polypeptide fragment comprising the amino acid sequence set forth in SEQ ID NO: 7.
- 63. (Currently amended) An immunogen isolated Tir polypeptide that consists of comprising a Tir polypeptide fragment that comprises at least 8 consecutive amino acids of SEQ ID NO: 10 or SEQ ID NO: 11.
- 64. (Currently amended) The <u>immunogenisolated Tir polypeptide</u> of claim 63 wherein the Tir polypeptide fragment comprises the amino acid sequence set forth in SEQ ID NO: 7.
- 65. (Currently amended) A fusion protein comprising an isolated Tir polypeptide that comprises the amino acid sequence of SEQ ID NO: 10 or SEQ ID NO: 11 fused to a non-Tir protein sequence.

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- 66. **(Previously presented)** The fusion protein of claim 64 wherein the fusion protein comprises a cleavage site located between the Tir polypeptide and the non-Tir protein sequence.
- 67. (Previously presented) The fusion protein of claim 65 wherein the non-Tir protein sequence is an immunoglobulin (Ig) Fc domain.
- 68. (Previously presented) The fusion protein of claim 65 wherein the non-Tir protein sequence is a marker polypeptide selected from the group consisting of an enzyme, a fluorescent protein, and a luminescent protein.

## 69-72. (Cancelled)

- 73. **(Previously presented)** The method of claim 23 wherein the immune response is a protective immune response.
- 74. (Currently amended) The method of claim 23 wherein the immunogen comprises a polypeptide comprising at least one of the amino acid sequence[[s]] set forth in SEQ ID NO: 10 and SEQ ID NO: 11.
- 75. (New) An isolated nucleic acid molecule which encodes a Tir protein comprising the amino acid sequence of SEQ ID NO: 11 or an amino acid sequence variant which is at least 95% identical to an amino acid sequence as set forth in SEQ ID NO: 11, wherein the variant has the ability to induce an immune response in a host to a Tir-producing organism.